

# Anirudha Majumdar

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

853  
citations

933447

10  
h-index

1199594

12  
g-index

21  
all docs

21  
docs citations

21  
times ranked

661  
citing authors

#	ARTICLE	IF	CITATIONS
1	Funnel libraries for real-time robust feedback motion planning. International Journal of Robotics Research, 2017, 36, 947-982.	8.5	216
2	DSOS and SDSOS Optimization: More Tractable Alternatives to Sum of Squares and Semidefinite Optimization. SIAM Journal on Applied Algebra and Geometry, 2019, 3, 193-230.	1.4	107
3	Control design along trajectories with sums of squares programming. , 2013, , .		90
4	Convex optimization of nonlinear feedback controllers via occupation measures. International Journal of Robotics Research, 2014, 33, 1209-1230.	8.5	83
5	DSOS and SDSOS optimization: LP and SOCP-based alternatives to sum of squares optimization. , 2014, , .		51
6	Robust Online Motion Planning with Regions of Finite Time Invariance. Springer Tracts in Advanced Robotics, 2013, , 543-558.	0.4	46
7	Recent Scalability Improvements for Semidefinite Programming with Applications in Machine Learning, Control, and Robotics. Annual Review of Control, Robotics, and Autonomous Systems, 2020, 3, 331-360.	11.8	44
8	Control and verification of high-dimensional systems with DSOS and SDSOS programming. , 2014, , .		40
9	A Framework for Time-Consistent, Risk-Sensitive Model Predictive Control: Theory and Algorithms. IEEE Transactions on Automatic Control, 2019, 64, 2905-2912.	5.7	40
10	Safety verification of reactive controllers for UAV flight in cluttered environments using barrier certificates. , 2012, , .		32
11	Some applications of polynomial optimization in operations research and real-time decision making. Optimization Letters, 2016, 10, 709-729.	1.6	28
12	Synthesis and Optimization of Force Closure Grasps via Sequential Semidefinite Programming. Springer Proceedings in Advanced Robotics, 2018, , 285-305.	1.3	16
13	Flying between obstacles with an autonomous knife-edge maneuver. , 2014, , .		14
14	Risk-sensitive inverse reinforcement learning via semi- and non-parametric methods. International Journal of Robotics Research, 2018, 37, 1713-1740.	8.5	11
15	PAC-Bayes control: learning policies that provably generalize to novel environments. International Journal of Robotics Research, 2021, 40, 574-593.	8.5	11
16	Complexity of ten decision problems in continuous time dynamical systems. , 2013, , .		9
17	Task-Driven Estimation and Control via Information Bottlenecks. , 2019, , .		5
18	Characterization of Dynamic Behaviors in a Hexapod Robot. Springer Tracts in Advanced Robotics, 2014, , 667-684.	0.4	4

#	ARTICLE	IF	CITATIONS
19	Robust Control Under Uncertainty via Bounded Rationality and Differential Privacy. , 2022, , .		4
20	Distributionally Robust Policy Learning via Adversarial Environment Generation. IEEE Robotics and Automation Letters, 2022, 7, 1379-1386.	5.1	2
21	Stronger Generalization Guarantees for Robot Learning by Combining Generative Models and Real-World Data. , 2022, , .		0